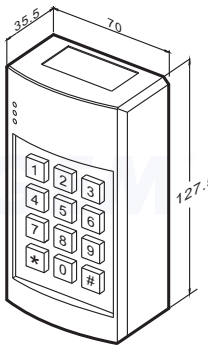
GEM®

DG-30
Digital Keypad / Proximity Entry System



Unit: mm

Features

- Allows up to 150 Proximity cards / tokens or PIN codes
- Tamper Switch Included
- Door Reed Switch Input for Anti-Trailing
- Fully Programmable via keypad and master code
- Extendable from keypad only to proximity controller
- Supports 26 or 34-bit Wiegand auxiliary reader
- Logical memory to prevent duplication
- Non-Volatile Memory
- Invalid PIN Lock-out

Statement

The DG-30 digital keypad entry system is a Multi-purpose keypad, extendable to proximity reader's controller (Wiegand format). 150 group of user's capacity, control by two Relays: Relay 1 is Induces the card or the password using the 001~100 group; Relay 2 is using 101~150 group password user, and receives auxiliary reader Wiegand 34 or 26-bit format (adjustable, hexadecimal).

Digital code-operated (anti-tamper) for indoor access control keypad with up to 150 individual user PIN codes or 100 individual user cards and 50 user PIN codes, suitable for small and medium-size businesses, multi-tenant residential and commercial buildings, as well as clinics and health facilities. The door reed switch is used to time out the timer when door is moved. User access PINs ensure that all functions controlled to authorized persons only. It mounts to any standard single gang electrical box or directly to any wall.

The DG-30 providing single door access control, and ideal for small controllers application. When host conjunction with extended auxiliary reader on outdoors for high security access control integration nowadays and the future, it's designed to mount on a standard-single-gang electric wall box or on the surface of an interior or exterior wall.

Logical memory can prevents unauthorized persons from gaining PIN code entry by trial and error, host will shut down 60 seconds while 5 times of incorrectly password applied which would eliminate any random application of card ID code transmission. Build in tamper switch that turns on alarm relay activation to ensure vandal proof.

Specifications

- Operating Voltage: 12 VDC
- Current Draw: 60mA Max @12VDC
- Input: request-to-exit, time out reed switch contact, auxiliary reader.
- Relays Electric Current: 2A MAX @30Vdc , 0.4A @ 120Vac .
- Memory Volume: 150 PIN codes or 100 Proximity cards/tokens and 50 PIN codes.
- Format: 26 or 34-bit Wiegand hexadecimal.
- Relay 1 is controlled by 001~100 user slots (Cards or PIN codes)
- Relay 2 is controlled by 101~150 user slots (PIN codes(
- PIN codes: 5 digit codes only
- Case Material: ABS)UL94V0(
- Operating Temperature: -20~+70°C
- Ambient Humidity: 5~95% relative humidity non-condensing
- Visual Signals:
  - Red: Power on
  - Green: Relay activated
  - Tri-color LED:
  - Yellow: Program Mode
  - Red: The slot is registered)Lock-out(
  - Green: This slot may register the card or PIN codes.
- Factory Master Code: 12345
- Invalid PIN Lock-out: The system will shut down for 60 seconds while 32 codes of incorrectly Master Codes enrolled or PIN codes attempted.
- EPROM:Non-volatile memory, System will retain all programs and codes after a total loss of power.
- Output: Dual relay, N.O./N.C./Com. Output (free voltage contact) Tamper switch
- Relay Activation Time:
  - Strike Time: 1~99 seconds
  - Strike mode: Access Timer or Latch
- Colour: Dark gray/ Beige White

Warranty

The product is warranted against defects in material and workmanship while used in normal service for a period of 1 year from the date of sale to the original customer. The GEM policy is one of continual development and improvement; therefore GEM reserves the right to change specifications without notice.

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The products are manufactured under an ISO 9001 & QC 080000 Certified Quality Management Program environment back its product quality, performance and commitment to customer satisfaction.

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Digital Keypad / Proximity Entry System

Auxiliary reader

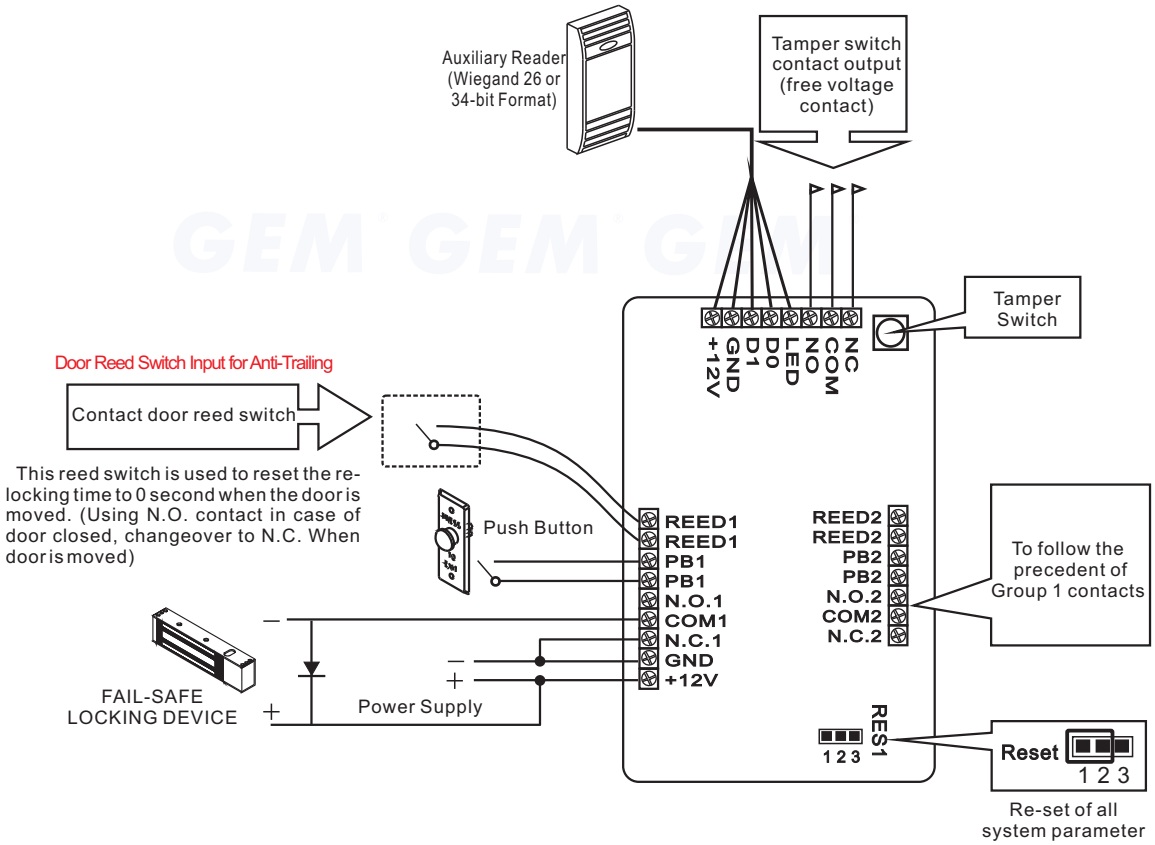
GEMPROX-H
125 KHz,Wiegand 26~37-bit format output

GEMPROX-E
125 KHz,Wiegand 26-bit format output

GEMPROX-26M
13.56 MHz,Wiegand 26-bit format output, Mifare 1 compatible

The auxiliary reader must not be further than 50 meters from the DG-30. Also this reader should be nearer than 60 centimeters, to avoid disturbance. The suggested wire gauge is #22~26 AWG. Split of units for DG-30 and auxiliary reader in ranging up to 50 M bring out the friendly system device for low cost but high security with anti-tampering as well as convenience and reliability.

Connecting Diagram



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